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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/744,622	05/07/2002	Nicholas Bachynsky	HO-P01615WO0	1907
David L. Fox	7590 06/26/200	EXAMINER		
	Ł JAWORSKI L.L.P.	ROYDS, LESLIE A		
1301 McKinney Suite 5100 Houston, TX 77010-3095			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	09/744,622	BACHYNSKY ET AL.		
Office Action Summary	Examiner	Art Unit		
	Leslie A. Royds	1614		
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on 12 L     This action is <b>FINAL</b> . 2b) ☑ Thi     Since this application is in condition for allowate closed in accordance with the practice under	s action is non-final. ance except for formal matters, pro	secution as to the merits is		
Disposition of Claims				
4) ☐ Claim(s) 109,112-117,120 and 121 is/are pen 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 109,112-117,120-121 is/are rejected 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	awn from consideration.			
Application Papers				
9) The specification is objected to by the Examina 10) The drawing(s) filed on is/are: a) acceptable and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct to be a constant or declaration is objected to by the E	cepted or b) objected to by the I drawing(s) be held in abeyance. See ction is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate		

### **DETAILED ACTION**

# Claims 109, 112-117 and 120-121 are presented for examination.

Applicant's Amendment filed December 12, 2007 has been received and entered into the present application. Pursuant to the notice dated March 28, 2008, the response filed December 12, 2007 was non-compliant. Applicant's supplemental Amendment filed April 1, 2008 correcting the deficiencies outlined in the notice dated March 28, 2008 has also been received and entered into the present application.

Claims 109, 112-117 and 120-121 remain pending and under examination. Claims 109, 112, 115-117 and 120 are amended and claims 100-101, 103-108, 110-111 and 118-119 are cancelled.

Applicant's amendments and arguments, filed December 12, 2007 and April 1, 2008, have been fully considered. Rejections not reiterated from previous Office Actions are hereby withdrawn. The following rejections are either reiterated or newly applied. They constitute the complete set of rejections presently being applied to the instant application.

# Claim Rejections - 35 USC § 102 (New Grounds of Rejection)

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 109, 112-113, 116 and 120-121 are rejected under 35 U.S.C. 102(b) as being anticipated by Cone Jr. (U.S. Patent No. 4,724,234; 1988).

Cone Jr. teaches a method of producing oncolysis, i.e., lysis or degeneration or death of malignant cancer cells, by concurrent administration of two therapeutic regimens, wherein the first regimen is a defined nutritional regimen to minimize the use of amino acids and fatty acids as an energy source for ATP synthesis within the cancer cell(s) (i.e., meets Applicant's requirement for a second medication to be

administered that increases the metabolic rate of the subject to be treated; see, e.g., instant claims 112 or 120), and further wherein the second regimen in the administration of 2,4-dinitrophenol in an amount sufficient to uncouple oxidative phosphorylation (col.7, 1.51-col.8, 1.5; col.19, 1.26-39). Cone Jr. teaches the inclusion of the essential fatty acids linoleic and linolenic acids as part of the defined nutritional regimen (col.12, 1.8-19) and exemplifies the use of the disclosed regimen in patient(s) with retroperitoneal tumor mass (Example 3, col.28-31) and adenocarcinoma of the prostate (Example 4, col.31-34).

Note that the instant claims (see, e.g., instant claim 109 or 116) do not, in fact, require that the subject in which the intracellular hyperthermia is induced actually suffers from an infection that results from Borrelia burgdorferi, Mycobacterium leprae, Treponema pallidum, HIV, hepatitis C, herpes virus or papillomavirus (instant claim 109) or an infestation that results from Candida, Sporothrix schenkii, Histoplasma, paracoccidiodes, Aspergillus, Leishmania, malaria, acanthomoeba or cestodes (instant claim 116). In other words, the claims as presently written require that the compound 2,4-dinitrophenol be administered to a subject for the purpose of inducing intracellular hyperthermia in said subject, wherein the amount of 2,4-dinitrophenol that is administered is sufficient to induce intracellular hyperthermia. Such limitations are clearly met by the teachings of Cone Jr. as discussed *supra*. The phrase "wherein the induced intracellular hyperthermia is used to treat infections that result" as in instant claim 109 or the phrase "wherein the induced intracellular hyperthermia is used to treat infestations that result" as in instant 116 is a statement of intent to use the induced intracellular hyperthermia for the treatment of any one of the listed infection(s) or infestation(s) recited in the instant claims, but fails to limit (1) the subject to be treated (i.e., by requiring that the subject in which the intracellular hyperthermia is induced is actually suffering from any one of the recited infections or infestations) or (2) the therapeutic objective of the claimed method (i.e., by requiring that the induced intracellular hyperthermia is specifically used to elicit treatment of one or more of the instantly claimed infections or infestations). As a result, the method practiced in Cone Jr. clearly anticipates the instant claims directed to a method for inducing intracellular

hyperthermia in a subject by administering an amount of 2,4-dinitrophenol sufficient to induce intracellular hyperthermia in said subject.

Though Cone Jr. does not expressly teach an intracellular hyperthermic effect via the induction of heat shock proteins as a result of the disclosed regimen, the administration of the same compound as claimed (i.e., 2,4-dinitrophenol) to cancerous cells (e.g., retroperitoneal or prostate) is considered to necessarily have the claimed intracellular hyperthermic effect via the induction of heat shock proteins, whether expressly recognized by Cone Jr. or not. Products of identical chemical composition cannot exert mutually exclusive properties when administered under the same circumstances or, in the present case, the same host. Please reference MPEP §2112. Though mechanisms of action of chemical entities are no doubt important contributions to scientific and pharmaceutical development, the assessment of patentability under 35 U.S.C. 102 is based upon the therapeutic applications and effects of the compounds, not the mechanism by which they exert such a therapeutic effect. Furthermore, it is generally well settled in the courts that a mechanistic property of a chemical compound, or a combination of chemical compounds, when administered under identical conditions, is necessarily present, despite the fact that it may not have been readily apparent to, or recognized by, one of ordinary skill in the art.

# Claim Rejections - 35 USC § 103 (New Grounds of Rejection)

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary.

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Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 109, 112-113 and 114 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cone Jr. (U.S. Patent No. 4,724,234; 1988) in view of Jacob ("Cancer Chemotherapy", *National Medical Series for Independent Study: Pharmacology* (Fourth Edition), Williams and Wilkins, 1996; p.253-274).

Cone Jr. teaches a method of producing oncolysis, i.e., lysis or degeneration or death of malignant cancer cells, by concurrent administration of two therapeutic regimens, wherein the first regimen is a defined nutritional regimen to minimize the use of amino acids and fatty acids as an energy source for ATP synthesis within the cancer cell(s) (i.e., meets Applicant's requirement for a second medication to be administered that increases the metabolic rate of the subject to be treated; see, e.g., instant claims 112 or 120), and further wherein the second regimen in the administration of 2,4-dinitrophenol in an amount sufficient to uncouple oxidative phosphorylation (col.7, l.51-col.8, l.5; col.19, l.26-39). Cone Jr. teaches the inclusion of the essential fatty acids linoleic and linolenic acids as part of the defined nutritional regimen (col.12, l.8-19) and exemplifies the use of the disclosed regimen in patient(s) with retroperitoneal tumor mass (Example 3, col.28-31) and adenocarcinoma of the prostate (Example 4, col.31-34).

Note that the instant claims (see, e.g., instant claim 109) do not, in fact, require that the subject in which the intracellular hyperthermia is induced actually suffers from an infection that results from *Borrelia burgdorferi*, *Mycobacterium leprae*, *Treponema pallidum*, HIV, hepatitis C, herpes virus or papillomavirus (instant claim 109). In other words, the claims as presently written require that the compound 2,4-dinitrophenol be administered to a subject for the purpose of inducing intracellular hyperthermia in said subject, wherein the amount of 2,4-dinitrophenol that is administered is sufficient to

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induce intracellular hyperthermia. Such limitations are clearly met by the teachings of Cone Jr. as discussed *supra*. The phrase "wherein the induced intracellular hyperthermia is used to treat infections that result" as in instant claim 109 is a statement of intent to use the induced intracellular hyperthermia for the treatment of any one of the listed infection(s) recited in the instant claims, but fails to limit (1) the subject to be treated (i.e., by requiring that the subject in which the intracellular hyperthermia is induced is actually suffering from any one of the recited infections) or (2) the therapeutic objective of the claimed method (i.e., by requiring that the induced intracellular hyperthermia is specifically used to elicit treatment of one or more of the instantly claimed infections). As a result, the method practiced in Cone Jr. clearly anticipates the instant claims directed to a method for inducing intracellular hyperthermia in a subject by administering an amount of 2,4-dinitrophenol sufficient to induce intracellular hyperthermia in said subject.

Though Cone Jr. does not expressly teach an intracellular hyperthermic effect via the induction of heat shock proteins as a result of the disclosed regimen, the administration of the same compound as claimed (i.e., 2,4-dinitrophenol) to cancerous cells (e.g., retroperitoneal or prostate) is considered to necessarily have the claimed intracellular hyperthermic effect via the induction of heat shock proteins, whether expressly recognized by Cone Jr. or not. Products of identical chemical composition cannot exert mutually exclusive properties when administered under the same circumstances or, in the present case, the same host. Please reference MPEP §2112. Though mechanisms of action of chemical entities are no doubt important contributions to scientific and pharmaceutical development, the assessment of patentability under 35 U.S.C. 102 is based upon the therapeutic applications and effects of the compounds, not the mechanism by which they exert such a therapeutic effect. Furthermore, it is generally well settled in the courts that a mechanistic property of a chemical compound, or a combination of chemical compounds, when administered under identical conditions, is necessarily present, despite the fact that it may not have been readily apparent to, or recognized by, one of ordinary skill in the art.

Cone Jr. fails to teach the concomitant administration of an antibacterial agent, such as, *inter alia*, a peptide antibiotic (claim 114).

Jacob teaches various natural antibiotic compounds as effective cancer chemotherapeutic agents, including the cyclic polypeptide antibiotic dactinomycin (also known as actinomycin D; p.263), the glycopeptide antibiotic bleomycin, which functions to generate free radical oxygen (p.265) and the quinone antibiotic mitomycin (also known as mitomycin C; p.266), which also functions to generate oxygen-derived free radicals (p.266).

One of ordinary skill in the art would have found it *prima facie* obvious to administer the anticancer antibiotic(s) (such as, *inter alia*, the cyclic polypeptide antibiotic dactinomycin) useful for treating cancer as disclosed by Jacob with the method for producing oncolysis of malignant cancer cells in a cancer patient using 2,4-dinitrophenol as disclosed by Cone Jr. Such a person would have been motivated to do so because each was known to have efficacy in the treatment of cancer patients and, thus, the suggestion to make such a combination flows logically from the very fact that each was known in the prior art to have the same therapeutic utility and, in turn, raises the reasonable expectation of success that the two therapies, when combined, would have, at minimum, additive, if not synergistic, cancerameliorating effects when combined.

As stated in *In re Kerkhoven*, 626 F.2d 846, 205 USPQ 1069, at page 1072 (CCPA 1980): "It is *prima facie* obvious to combine two compositions each of which is taught by the prior art to be useful for the same purpose, in order to form a third composition which is to be used for the very same purpose. *In re Susi*, 58 CCPA 1074, 1079-80, 440 F.2d 442, 445, 169 USPQ 423, 426 (1971); *In re Crockett*, 47 CCPA 1018, 1020-21, 279 F.2d 274, 276-277, 126 USPQ 186, 188 (CCPA 1960)."

Claims 109, 112-113 and 115 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cone Jr. (U.S. Patent No. 4,724,234; 1988) in view of Martiniello-Wilks et al. ("In Vivo Gene

Therapy for Prostate Cancer: Preclinical Evaluation of Two Different Enzyme-Directed Prodrug Therapy Systems Delivered by Identical Adenovirus Vectors", *Hum Gene Ther*, 1998 Jul 20; 9(11):1617-1626).

Cone Jr. teaches a method of producing oncolysis, i.e., lysis or degeneration or death of malignant cancer cells, by concurrent administration of two therapeutic regimens, wherein the first regimen is a defined nutritional regimen to minimize the use of amino acids and fatty acids as an energy source for ATP synthesis within the cancer cell(s) (i.e., meets Applicant's requirement for a second medication to be administered that increases the metabolic rate of the subject to be treated; see, e.g., instant claims 112 or 120), and further wherein the second regimen in the administration of 2,4-dinitrophenol in an amount sufficient to uncouple oxidative phosphorylation (col.7, l.51-col.8, l.5; col.19, l.26-39). Cone Jr. teaches the inclusion of the essential fatty acids linoleic and linolenic acids as part of the defined nutritional regimen (col.12, l.8-19) and exemplifies the use of the disclosed regimen in patient(s) with retroperitoneal tumor mass (Example 3, col.28-31) and adenocarcinoma of the prostate (Example 4, col.31-34).

Note that the instant claims (see, e.g., instant claim 109) do not, in fact, require that the subject in which the intracellular hyperthermia is induced actually suffers from an infection that results from *Borrelia burgdorferi, Mycobacterium leprae, Treponema pallidum*, HIV, hepatitis C, herpes virus or papillomavirus (instant claim 109). In other words, the claims as presently written require that the compound 2,4-dinitrophenol be administered to a subject for the purpose of inducing intracellular hyperthermia in said subject, wherein the amount of 2,4-dinitrophenol that is administered is sufficient to induce intracellular hyperthermia. Such limitations are clearly met by the teachings of Cone Jr. as discussed *supra*. The phrase "wherein the induced intracellular hyperthermia is used to treat infections that result" as in instant claim 109 is a statement of intent to use the induced intracellular hyperthermia for the treatment of any one of the listed infection(s) recited in the instant claims, but fails to limit (1) the subject to be treated (i.e., by requiring that the subject in which the intracellular hyperthermia is induced

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is actually suffering from any one of the recited infections) or (2) the therapeutic objective of the claimed method (i.e., by requiring that the induced intracellular hyperthermia is specifically used to elicit treatment of one or more of the instantly claimed infections). As a result, the method practiced in Cone Jr. clearly anticipates the instant claims directed to a method for inducing intracellular hyperthermia in a subject by administering an amount of 2,4-dinitrophenol sufficient to induce intracellular hyperthermia in said subject.

Though Cone Jr. does not expressly teach an intracellular hyperthermic effect via the induction of heat shock proteins as a result of the disclosed regimen, the administration of the same compound as claimed (i.e., 2,4-dinitrophenol) to cancerous cells (e.g., retroperitoneal or prostate) is considered to necessarily have the claimed intracellular hyperthermic effect via the induction of heat shock proteins, whether expressly recognized by Cone Jr. or not. Products of identical chemical composition cannot exert mutually exclusive properties when administered under the same circumstances or, in the present case, the same host. Please reference MPEP §2112. Though mechanisms of action of chemical entities are no doubt important contributions to scientific and pharmaceutical development, the assessment of patentability under 35 U.S.C. 102 is based upon the therapeutic applications and effects of the compounds, not the mechanism by which they exert such a therapeutic effect. Furthermore, it is generally well settled in the courts that a mechanistic property of a chemical compound, or a combination of chemical compounds, when administered under identical conditions, is necessarily present, despite the fact that it may not have been readily apparent to, or recognized by, one of ordinary skill in the art.

Cone Jr. fails to teach the concomitant administration of an antiviral agent, such as, *inter alia*, ganciclovir (claim 115).

Martiniello-Wilks et al. teaches the use of *in vivo* gene therapy comprising a combination of the herpes simplex virus thymidine kinase (HSVTK) in combination with ganciclovir (GCV) in mice exhibiting prostate tumor (abstract; col.1, para.4, p.1618). Martiniello-Wilks et al. further teaches that

tumor growth was significantly suppressed following a single course of HSVTK/GCV treatment and discloses that the HSVTK/GCV therapy interrupts the growth of aggressive human prostate cancer cells *in vivo* (abstract).

One of ordinary skill in the art would have found it *prima facie* obvious to administer the HSVTK/ganciclovir therapy useful for treating prostate cancer as disclosed by Martiniello-Wilks et al. with the method for producing oncolysis of malignant cancer cells in a cancer patient using 2,4-dinitrophenol as disclosed by Cone Jr. Such a person would have been motivated to do so because each was known to have efficacy in the treatment of cancer patients and, thus, the suggestion to make such a combination flows logically from the very fact that each was known in the prior art to have the same therapeutic utility and, in turn, raises the reasonable expectation of success that the two therapies, when combined, would have, at minimum, additive, if not synergistic, cancer-ameliorating effects when combined.

As stated in *In re Kerkhoven*, 626 F.2d 846, 205 USPQ 1069, at page 1072 (CCPA 1980): "It is *prima facie* obvious to combine two compositions each of which is taught by the prior art to be useful for the same purpose, in order to form a third composition which is to be used for the very same purpose. *In re Susi*, 58 CCPA 1074, 1079-80, 440 F.2d 442, 445, 169 USPQ 423, 426 (1971); *In re Crockett*, 47 CCPA 1018, 1020-21, 279 F.2d 274, 276-277, 126 USPQ 186, 188 (CCPA 1960)."

Claims 116-117 and 120-121 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cone Jr. (U.S. Patent No. 4,724,234; 1988) in view of Camden (WO 97/05870; 1997).

Cone Jr. teaches a method of producing oncolysis, i.e., lysis or degeneration or death of malignant cancer cells, by concurrent administration of two therapeutic regimens, wherein the first regimen is a defined nutritional regimen to minimize the use of amino acids and fatty acids as an energy source for ATP synthesis within the cancer cell(s) (i.e., meets Applicant's requirement for a second medication to be

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administered that increases the metabolic rate of the subject to be treated; see, e.g., instant claims 112 or 120), and further wherein the second regimen in the administration of 2,4-dinitrophenol in an amount sufficient to uncouple oxidative phosphorylation (col.7, 1.51-col.8, 1.5; col.19, 1.26-39). Cone Jr. teaches the inclusion of the essential fatty acids linoleic and linolenic acids as part of the defined nutritional regimen (col.12, 1.8-19) and exemplifies the use of the disclosed regimen in patient(s) with retroperitoneal tumor mass (Example 3, col.28-31) and adenocarcinoma of the prostate (Example 4, col.31-34).

Note that the instant claims (see, e.g., instant claim 116) do not, in fact, require that the subject in which the intracellular hyperthermia is induced actually suffers from an infestation that results from Candida, Sporothrix schenkii, Histoplasma, paracoccidiodes, Aspergillus, Leishmania, malaria, acanthomoeba or cestodes (instant claim 116). In other words, the claims as presently written require that the compound 2,4-dinitrophenol be administered to a subject for the purpose of inducing intracellular hyperthermia in said subject, wherein the amount of 2,4-dinitrophenol that is administered is sufficient to induce intracellular hyperthermia. Such limitations are clearly met by the teachings of Cone Jr. as discussed supra. The phrase "wherein the induced intracellular hyperthermia is used to treat infestations that result" as in instant 116 is a statement of intent to use the induced intracellular hyperthermia for the treatment of any one of the listed infection(s) or infestation(s) recited in the instant claims, but fails to limit (1) the subject to be treated (i.e., by requiring that the subject in which the intracellular hyperthermia is induced is actually suffering from any one of the recited infestations) or (2) the therapeutic objective of the claimed method (i.e., by requiring that the induced intracellular hyperthermia is specifically used to elicit treatment of one or more of the instantly claimed infestations). As a result, the method practiced in Cone Jr. clearly anticipates the instant claims directed to a method for inducing intracellular hyperthermia in a subject by administering an amount of 2,4-dinitrophenol sufficient to induce intracellular hyperthermia in said subject.

Though Cone Jr. does not expressly teach an intracellular hyperthermic effect via the induction of heat shock proteins as a result of the disclosed regimen, the administration of the same compound as claimed (i.e., 2,4-dinitrophenol) to cancerous cells (e.g., retroperitoneal or prostate) is considered to necessarily have the claimed intracellular hyperthermic effect via the induction of heat shock proteins, whether expressly recognized by Cone Jr. or not. Products of identical chemical composition cannot exert mutually exclusive properties when administered under the same circumstances or, in the present case, the same host. Please reference MPEP §2112. Though mechanisms of action of chemical entities are no doubt important contributions to scientific and pharmaceutical development, the assessment of patentability under 35 U.S.C. 102 is based upon the therapeutic applications and effects of the compounds, not the mechanism by which they exert such a therapeutic effect. Furthermore, it is generally well settled in the courts that a mechanistic property of a chemical compound, or a combination of chemical compounds, when administered under identical conditions, is necessarily present, despite the fact that it may not have been readily apparent to, or recognized by, one of ordinary skill in the art.

Cone Jr. fails to teach the concomitant administration of an antifungal agent, such as, *inter alia*, griseofulvin (claim 117).

Camden teaches a pharmaceutical composition for the treatment of cancers or tumors in mammals that comprises griseofulvin (abstract). Camden further teaches that the disclosed compositions can be used to inhibit the growth of leukemia, tumors and cancer cells in humans or animals by administering an effective amount of griseofulvin orally, rectally, topically, parenterally or intravenously (p.2, 1.10-13).

One of ordinary skill in the art would have found it *prima facie* obvious to administer the pharmaceutical composition containing griseofulvin useful for treating cancer as disclosed by Camden with the method for producing oncolysis of malignant cancer cells in a cancer patient using 2,4-dinitrophenol as disclosed by Cone Jr. Such a person would have been motivated to do so because each

was known to have efficacy in the treatment of cancer patients and, thus, the suggestion to make such a combination flows logically from the very fact that each was known in the prior art to have the same therapeutic utility and, in turn, raises the reasonable expectation of success that the two therapies, when combined, would have, at minimum, additive, if not synergistic, cancer-ameliorating effects when combined.

As stated in *In re Kerkhoven*, 626 F.2d 846, 205 USPQ 1069, at page 1072 (CCPA 1980): "It is *prima facie* obvious to combine two compositions each of which is taught by the prior art to be useful for the same purpose, in order to form a third composition which is to be used for the very same purpose. *In re Susi*, 58 CCPA 1074, 1079-80, 440 F.2d 442, 445, 169 USPQ 423, 426 (1971); *In re Crockett*, 47 CCPA 1018, 1020-21, 279 F.2d 274, 276-277, 126 USPQ 186, 188 (CCPA 1960)."

#### Conclusion

Rejection of claims 109, 112-117 and 120-121 is proper.

No claims of the present application are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leslie A. Royds whose telephone number is (571)-272-6096. The examiner can normally be reached on Monday-Friday (9:00 AM-5:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ardin H. Marschel can be reached on (571)-272-0718. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

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1000.

/Leslie A. Royds/

Patent Examiner, Art Unit 1614

June 19, 2008

/Ardin Marschel/

Supervisory Patent Examiner, Art Unit 1614